



# RDX-E700

DVD RECEIVER

AMPLI-TUNER DVD



OWNER'S MANUAL MODE D'EMPLOI

# **IMPORTANT SAFETY INSTRUCTIONS**



#### CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

#### Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

- 1 Read Instructions All the safety and operating instructions should be read before the product is operated.
- 2 Retain Instructions The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions All operating and use instructions should be followed.
- 5 Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- 6 Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- Water and Moisture Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8 Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- 9 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

- 10 Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11 Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12 Grounding or Polarization This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14 Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 15 Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 16 Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17 Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18 Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19 Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a) When the power-supply cord or plug is damaged,
  - If liquid has been spilled, or objects have fallen into the product,
  - c) If the product has been exposed to rain or water,

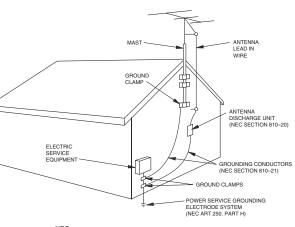
- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
- e) If the product has been dropped or damaged in any way, and
- f) When the product exhibits a distinct change in performance this indicates a need for service.
- 20 Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 21 Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 22 Wall or Ceiling Mounting The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 23 Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

#### Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

#### **EXAMPLE OF ANTENNA GROUNDING**



NEC - NATIONAL ELECTRICAL CODE

#### **FCC INFORMATION (for US customers)**

# 1 IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

- 2 IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3 NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

### CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install this sound system in a well ventilated, cool, dry, clean place with at least 10 cm on the top, 10 cm on the left and right, and 10 cm at the back of RDX-E700 — away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
  - Other components, as they may cause damage and/or discoloration on the surface of this unit.
  - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
  - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cord and outdoor antennas disconnected from a wall outlet or the unit during a lightning storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- 16 Be sure to read the "TROUBLESHOOTING" section on common operating errors before concluding that this unit is faulty.

- 17 Before moving this unit, press STANDBY/ON to set this unit in standby mode, and disconnect the AC power plug from the wall outlet
- 18 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave the unit alone.
- 19 When using the unit for a long time, the unit may become warm. Turn the power off, then leave the unit alone for cooling.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

#### FOR CANADIAN CUSTOMERS

To prevent electric shock, match wide blade of plug to wide slot and fully insert.

This Class B digital apparatus complies with Canadian ICES-003.

#### **DANGER**

When this unit is plugged to the wall outlet, do not place your eyes close to the opening of the disc tray and other openings to look into inside.

The laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

#### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

#### **IMPORTANT**

Please record the serial number of this unit in the space below

MODEL:

Serial No .:

The serial number is located on the rear of the unit. Retain this Owner's Manual in a safe place for future reference.

### We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.



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### **FEATURES**

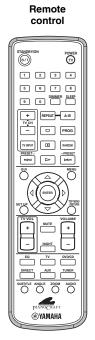
- Plays DVDs, Video CDs, Audio CDs, MP3 CDs, WMA CDs, DivX CDs and JPEG CDs.
- · Easy operation with the MULTI JOG
- Full function remote control
- On Screen Display (OSD) Menu
- DIGITAL OPTICAL OUT jack

### About this manual

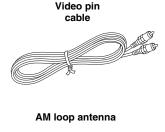
- In this manual, operations that can be performed using either the DVD receiver or its remote control are explained using the remote control.
- · Remote control descriptions and illustrations in this manual are based on the U.S.A. and Canada models unless otherwise specified.
- = indicates a tip for your operation.
- Notes contain important information about safety and operating instructions.
- This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and the product, the product has priority.

# **SUPPLIED ACCESSORIES**

This product includes the following accessories. Before connecting speakers or a TV to this product, make sure you received all of the following parts.



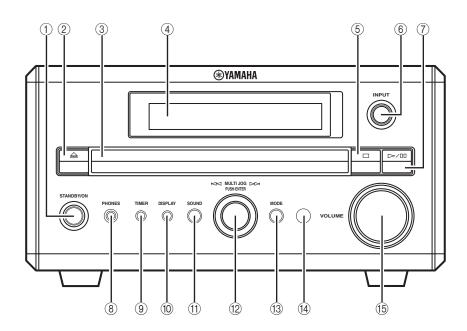






# **CONTROLS AND FUNCTIONS**

### Front panel



#### **1 STANDBY/ON**

Turns this unit on. Press this button again to set the unit to the standby mode (page 14).

### 2 🖨

Opens and closes the disc tray. Pressing  $\triangleq$  during standby mode turns on the DVD receiver and sets the input source to DVD/CD.

#### ③ Disc tray

Holds a disc to be played.

#### (4) Display

Displays playback information or settings (page 4).

#### ⑤ 🗖

Stops disc playback.

#### **⑥ INPUT**

Selects an input source.

#### ⑦ **▷/**□□

Starts and pauses disc playback.

#### **8 PHONES jack**

Connects headphones.

#### 9 TIMER

Sets the DVD receiver to the timer play mode or sleep mode.

#### (10) DISPLAY

Displays the status information such as the elapsed time of current track/chapter.

#### (f) SOUND

Switches the sound settings to be adjusted.

#### **12 MULTI JOG**

Adjusts various settings and the frequency when tuning radio station. You can also skip chapters or tracks when the input source is set to DVD/CD.

#### (13) MODE

Supports MULTI JOG and enables various operations.

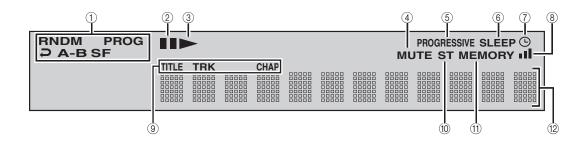
#### (14) Remote control sensor

Receives signals from the remote control.

#### (15) VOLUME

Adjusts the volume level.

### Display



#### 1 Playback mode indicator

Displays the icon for the selected playback mode.

#### ② Pause icon

Lights up when disc playback is paused.

#### ③ Playback icon

Lights up during disc playback.

#### (4) MUTE

Lights up when the mute function is activated.

#### (5) **PROGRESSIVE**

Lights up when the progressive scan function is activated.

#### 6 SLEEP

Lights up when the sleep timer function is activated.

#### (7) (E)

Lights up when the timer play function is activated.

#### (8) **.1**

Lights up when receiving a strong radio signal when the input source is set to AM or FM.

#### 9 Display mode indicator

Lights up depending on the disc type.

#### ① ST

Lights up when receiving a strong FM radio signal in the FM stereo mode.

#### **11) MEMORY**

Lights up or blinks when presetting an FM/AM radio station.

#### 12 Display

Displays various information such as a title, chapter or track number, or elapsed playing time.

# English

#### Remote control

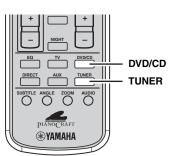
#### DVD/CD

- · Playback
- Subtitle and audio language selection, etc.

#### FM/AM

- Radio station tuning
- Radio station preset, etc.





#### Note

Remote control descriptions and illustrations in this manual are based on the U.S.A. and Canada models unless otherwise specified.

The DVD receiver has two main operation modes. Before operating functions in each mode, you need to select a mode to change the remote control button assignments.

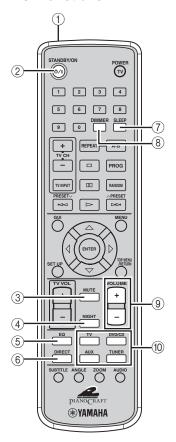
#### To switch the operation mode

- DVD/CD mode: Press DVD/CD.
- TUNER mode: Press TUNER. For details on tuner operations, refer to "TUNING RADIO STATIONS" (page 33).



You can also operate the TV and other components connected to the DVD receiver using the remote control. For details, refer to "CONTROLLING EXTERNAL COMPONENTS" (page 41).

#### **■** Common functions



#### Operations common to all modes

#### 1) Infrared signal transmitter

Sends signals to the DVD receiver.

#### ② STANDBY/ON (少/I)

Turn the DVD receiver on, or set it to the standby mode (page 14).

#### ③ MUTE

Turns off the volume. Press again to resume the volume.

#### (4) NIGHT

Switches the night listening mode on or off (page 40).

#### (5) **EG**

Switches the EQ MODE (page 39).

#### 6 DIRECT

Switches the DIRECT mode on or off.

#### (7) SLEEP

Sets the sleep timer (page 17).

#### ® DIMMER

Changes the brightness of the display (page 18).

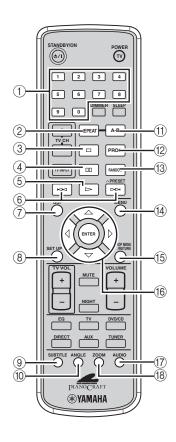
#### 9 VOLUME +/-

Adjusts the overall volume level.

#### 10 Input selection buttons

Selects the input source of the DVD receiver (page 14).

#### **■** DVD/CD mode



#### Operations available only in DVD/CD mode

#### 1) Number buttons (1 to 9, 0)

Press these buttons to enter numbers.

#### ② REPEAT

Enables the Repeat Play mode (page 25).

#### ③ 🗖

Stops disc playback.

#### **(4)**

Pauses disc playback.

#### (5) **>**

Starts disc playback.

#### ⑥ ⋈

Skips to the start of the current chapter/track or next chapter/track.

#### (7) GUI

Displays the status information such as the elapsed time of current track/chapter on the TV screen.

#### (8) SET UP

Displays the OSD menu on the TV screen (page 19).

#### **9 SUBTITLE**

Selects subtitle language (page 28).

#### 10 ANGLE

Selects a viewing angle (page 28).

#### (11) **A-B**

Enables the A-B Repeat mode (page 26).

#### 12 PROG

Enables the Program Play mode (page 23).

#### (13) RANDOM

Enables the Random Play mode (page 24).

#### (14) MENU

Displays the DVD menu on the TV screen (page 27).

#### 15 TOP MENU/RETURN

Returns the DVD menu to the previous screen (page 27).

### (6) △ / ▽ / 〈 / 〉 / ENTER

Operates the OSD menu (page 19).

#### (17) AUDIO

Selects audio language (page 28).

#### **18 ZOOM**

Zooms in a specified part of picture (page 29).

# **CONNECTING SPEAKERS**

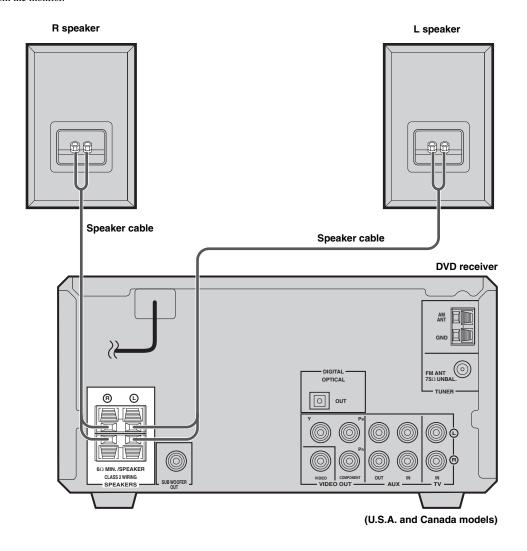
Follow the procedure below to connect speakers to the DVD receiver. Here, the connection example uses the YAMAHA NX-E700 (consisting of two speakers) and its supplied cables. For information on your speakers, refer to the owner's manual for the speakers.

``⊚′≤

You can also use commercially available speakers (see page 8).

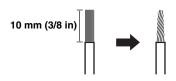
#### Notes

- Do not connect the power cable of the DVD receiver until all cable connections are completed.
- Be sure to connect the left channel (L), right channel (R), "+" (red) and "-" (black) properly. If the connections are faulty, no sound will be heard from the speakers, and if the polarity of the speaker connections is incorrect, the sound will be unnatural and lack bass.
- Do not let the bare speaker wires touch each other or do not let them touch any metal part of this unit. This could damage the DVD receiver and/or the speakers.
- Use speakers with the specified impedance shown on the rear panel of this unit.
- Use magnetically shielded speakers. If this type of speakers still creates the interference with the monitor, place the speakers away from the monitor.

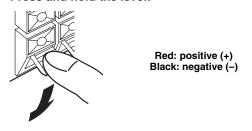


### Connecting speakers

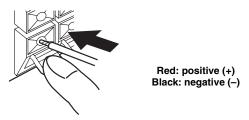
1 Remove approximately 10 mm (3/8 in) of insulation from the end of each speaker cable and twist the exposed wires of the cable together to prevent short circuits.



2 Press and hold the lever.



Insert one bare wire. By releasing the lever, the lever is replaced.



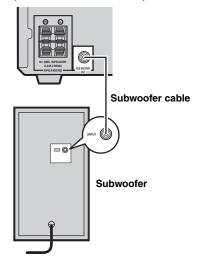
#### ■ Notes on the speaker cord

A speaker cord is actually a pair of insulated cables running side by side. One cable is colored or shaped differently, perhaps with a stripe, groove or ridge. Connect the striped (grooved, etc.) cable to the "+" (red) terminals on the DVD receiver and your speaker. Connect the plain cable to the "-" (black) terminals on the DVD receiver and your speaker.

### Connecting a subwoofer

Connect the SUBWOOFER OUT jack on the DVD receiver to the INPUT jack on the subwoofer using the subwoofer cable.

(U.S.A. and Canada models)



#### Notes

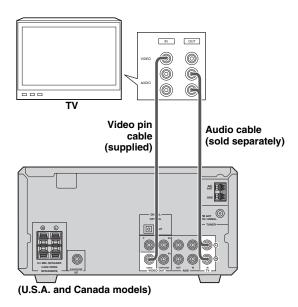
- Do not connect the power cable of the DVD receiver or subwoofer until all cable connections are completed.
- The low frequency range of the downmixed sound is output at the SUBWOOFER OUT jack.

### **CONNECTING A TV**

Follow the procedure below to connect your TV to the DVD receiver using the supplied video pin cable and audio cables (sold separately). Also, you can enjoy high-quality pictures with a component video connection. For information about your TV, refer to the supplied manual.

#### Notes

- Do not connect the power cable of the DVD receiver until all cable connections are completed.
- Turn off the TV before connecting it to the DVD receiver.



- 1 Connect the VIDEO jack on the DVD receiver to the video input jack on your TV using the supplied video pin cable.
- 2 To output sound from the speakers connected to the DVD receiver, connect the TV IN jacks on the DVD receiver to the audio output jacks on your TV using an audio pin cable (sold separately).

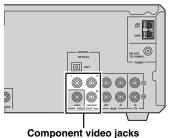
#### ■ Other connection methods

To make a component video connection, a corresponding cable is required.

#### **Component video connection**

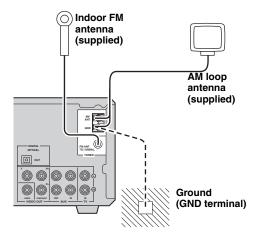
Connect the VIDEO OUT COMPONENT jacks on the DVD receiver to the component video input jacks on your TV using a commercially available component video cable.

(U.S.A. and Canada models)



### **CONNECTING ANTENNAS**

To enjoy radio on the DVD receiver, you need to connect AM and FM antennas to the DVD receiver. This product includes an AM loop antenna and indoor FM antenna. If there is a problem of weak radio wave reception in your area or you want to improve radio reception, we recommend that you use optional outdoor antennas. For details, consult the nearest authorized YAMAHA dealer or service center.



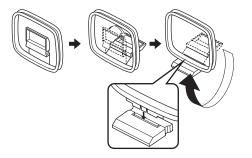
#### ■ About grounding

For maximum safety and minimum interference, connect the antenna GND terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth.

### Connecting the AM loop antenna

1 Attach the antenna stand to the antenna.

When attaching the antenna to the wall, you do not need to use the antenna stand.



2 Press and hold the tab.



Insert the AM loop antenna lead wires into the AM ANT terminal.



4 Release the tab.



- 5 Repeat steps 2 to 4 to insert the AM loop antenna lead wires into the GND terminal.
- 6 Place the antenna away from the DVD receiver and speaker cables.

While listening to the radio, rotate the antenna head to find the best angle for reception.



### Connecting the FM antenna

- 1 Connect the supplied indoor FM antenna to the FM ANT jack on the DVD receiver.
- Place the antenna away from the DVD receiver and speaker cables.

### **CONNECTING EXTERNAL COMPONENTS**

You can connect external components such as a CD recorder or MD recorder to the following jacks on the DVD receiver. This section provides an example of other equipment connections. For information on your equipments, refer to the manuals for them.

# Connecting a CD recorder or MD recorder

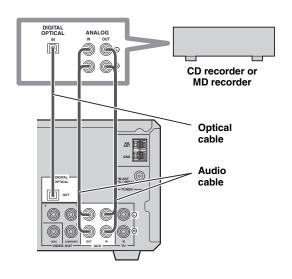
If you connect a CD recorder or MD recorder to the DVD receiver using optical cables, you can record audio sources played on the DVD receiver digitally. Also, you can enjoy audio sources played on the recorder with the DVD receiver.

#### `\o':

AM/FM broadcasts cannot be output from this unit's DIGITAL OPTICAL OUT jack. To record AM/FM broadcasts, use a commercially available audio cable to connect the AUX OUT jack on the DVD receiver to the analog input jack on your recorder.

#### Notes

- Turn off the component before connecting it to the DVD receiver.
- Do not connect the power cable of the DVD receiver until all cable connections are completed.



- 1 Connect the DIGITAL OPTICAL OUT jack on the DVD receiver to the digital input jack on the recorder using an optical cable.
- 2 Connect the AUX OUT jacks on the DVD receiver to the analog input jacks on the recorder using an audio cable.
- 3 Connect the AUX IN jacks on the DVD receiver to the analog output jacks on the recorder using an audio cable.

#### ■ About the AUX jacks

- The signal input from the AUX IN jack is not output from the AUX OUT jack.
- The DVD receiver's digital and analog signal circuits are independent of each other. Analog input signals are output only from analog output jacks.

#### ■ About the DIGITAL jack

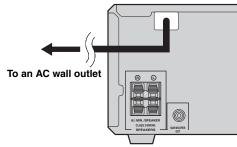
- The digital jack is compatible with PCM, Dolby Digital and DTS signals.
- The digital jack is designed based on EIA standards. To make a digital connection, use an optical cable that meets EIA standards.

``@′≤

This unit can output a DTS signal digitally. To reproduce a DTS encoded source, connect the DIGITAL OPTICAL OUT jack on the DVD receiver to the digital input jack on a component that features a DTS decoder.

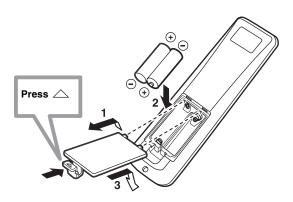
# **Connecting the Power Cables**

After you made all connections, connect the power cables of the DVD receiver and subwoofer (optional).



(U.S.A. and Canada models)

## **INSTALLING BATTERIES IN THE REMOTE CONTROL**



#### ■ To replace the batteries

Change all of the batteries if the operation range of the remote controls decreases.

#### Notes

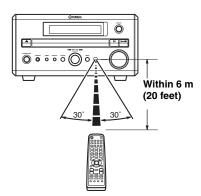
- Do not use an old battery together with new one.
- Do not use different types of batteries (for example, alkaline and manganese) together. Each type of battery has its own characteristics even if they are similar in shape.
- If the batteries run out, immediately remove them from the remote control to prevent an explosion or acid leak.
- Dispose of the batteries according to the regional regulations.
- If a battery starts leaking, dispose of it immediately. Be careful
  not to let leaking battery acid come into contact with your skin
  or clothing. Before inserting new batteries, wipe the
  compartment clean.
- Replace the batteries within two minutes to preserve the memory in the remote control.

- 1 Press the △ mark on the battery cover and open the cover.
- 2 Insert the two supplied batteries (AA, R06, UM-3) into the battery compartment.

Make sure you insert the batteries according to the polarity markings (+ and –).

3 Close the battery cover.

# **USING THE REMOTE CONTROL**

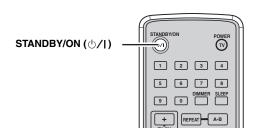


Use the remote control within 6 m (20 feet) of the DVD receiver and point it toward the remote control sensor (page 3).

#### **Notes**

- Be careful not to spill liquid on the remote control.
- Be careful not to drop the remote control.
- Do not leave the remote control in the following places:
  - hot or humid places, such as near a heater or in a bathroom
  - extremely cold places
  - dusty places

## TURNING THE POWER TO ON/STANDBY



Press STANDBY/ON once to turn on the DVD receiver.

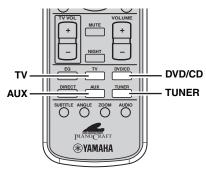
Press STANDBY/ON again to set the DVD receiver to the standby mode.

`\oʻ:

You can set the DVD receiver to the eco standby mode by pressing DISPLAY on the front panel during standby mode. In this mode, all display in the DVD receiver turns off. To cancel the eco standby mode, press DISPLAY during eco mode.

# SELECTING AN INPUT SOURCE

You can enjoy various sources with the DVD receiver. After connecting the TV, speakers, antennas, or other equipment, follow the procedure below to select an input source you want to play on the DVD receiver. For information on connection methods, refer to pages 8 to 12.



#### Perform one of the following operations

#### To switch to DVD/CD input:

Press DVD/CD.

To switch to external source input (external equipment connected to the DVD receiver):

Press AUX.

#### To switch to TV input:

Press TV.

#### To switch to tuner input (AM/FM radio):

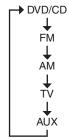
Press TUNER.

Each time you press TUNER, the input source switches between AM and FM.

# ■ To select an input source using INPUT on the front panel

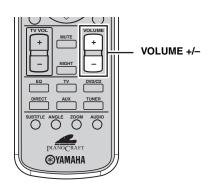
Press INPUT repeatedly.

Each time you press INPUT, the input source changes as follows:



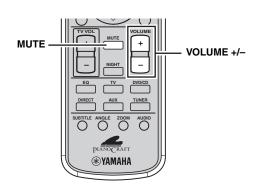
# English

# ADJUSTING THE VOLUME LEVEL



Press VOLUME + to increase the volume level and VOLUME – to decrease.

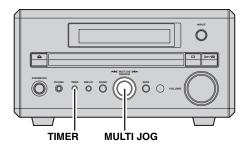
# **MUTING THE SOUND (MUTE)**



#### Press MUTE to mute the sound.

To restore audio output to the previous volume level, press MUTE again or press VOLUME +/-.

# ADJUSTING THE CLOCK



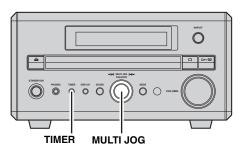
- 1 Press TIMER on the front panel to select "TIME" and then press MULTI JOG.
- 2 Rotate MULTI JOG to adjust the hour and then press MULTI JOG.
- 3 Rotate MULTI JOG to adjust the minute and then press MULTI JOG.
- 4 Press MULTI JOG again to set the time.

#### Note

You cannot set timer unless you adjust the clock.

# **SETTING THE TIMER**

You can set the timer function so that the DVD receiver turns on at the specified time and begins to play the selected input source automatically.



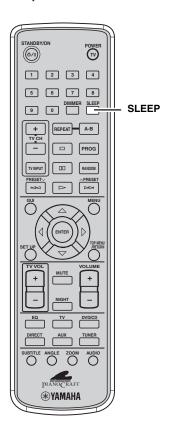
- 1 Press TIMER on the front panel to select "TIMER" and then press MULTI JOG.
- 2 Rotate MULTI JOG clockwise to select "TIMER ON" and then press MULTI JOG. The current timer setting is displayed.
- 3 Set the time that timer play begins using the MULTI JOG, and then press MULTI JOG.
- 4 Rotate MULTI JOG to select the input source to be played and then press MULTI JOG.
- Rotate MULTI JOG to set the duration (30 to 90 min) and then press MULTI JOG.
  - You can set the duration in 10 minutes steps.

#### To cancel the timer

Select "TIMER OFF" in step 2.

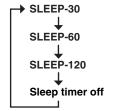
### **SETTING THE SLEEP TIMER**

If you set the sleep timer, the DVD receiver automatically turns to the Standby mode after the specified time.



# Press SLEEP repeatedly to set the duration for the sleep timer.

Each time you press SLEEP, the duration changes as follows:



`\o':

• The DVD receiver automatically turns to the dimmer mode.

#### Notes

- The sleep timer only works for the DVD receiver. It does not turn off other equipment connected to the DVD receiver.
- The sleep timer is canceled if you turn the DVD receiver to the Standby mode.
- The DVD receiver stores the mode or playback settings in its memory when it automatically turns to the Standby mode. You can use those settings when you turn on the DVD receiver next time

#### ■ To set the sleep timer using MULTI JOG

Press TIMER on the front panel repeatedly until "SLEEP" appears in the DVD receiver display.

Rotate MULTI JOG to set the duration (5 to 240 min). You can set the duration in 5 minutes steps (5 to 60 min), 10 minutes steps (60 to 120 min), or 30 minutes steps (120 to 240 min).

#### ■ To cancel the sleep timer

Press SLEEP repeatedly until "SLEEP" disappears from the DVD receiver display.

You can also cancel the sleep timer using MULTI JOG. Press TIMER on the front panel repeatedly until "SLEEP" appears in the DVD receiver display, and then rotate MULTI JOG to select "SLEEP-00".

# **CHANGING THE BRIGHTNESS OF THE DISPLAY**

You can change the brightness of the DVD receiver display.



#### Press DIMMER.

Each time you press DIMMER, the brightness of the display switches between Dimmer on and Dimmer off.

#### ■ To cancel the dimmer mode

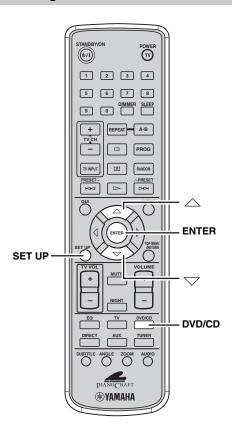
Press DIMMER again.

# nglish

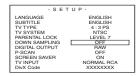
# CHANGING DVD SETTING ON THE TV (OSD MENU)

You can change various settings for DVD playback using the OSD (on-screen display) menu displayed on the TV screen connected to the DVD receiver. For details on the available menu items, refer to "OSD guide" (page 20).

### Operating the OSD menu



- 1 Press DVD/CD and then press SET UP to display the OSD menu on the TV screen.
- Press △ or ▽ to select a menu item, then press ENTER repeatedly to select the setting for the item.



3 Press SET UP to exit the OSD menu.

# OSD guide

Menu	Function		
LANGUAGE	Sets the language for the OSD menu and messages. Select a setting from English, German, French, Spanish, Italian, and Simplified Chinese. Simplified Chinese is available only for General model. This setting also changes the language for audio. If the selected language is not available on the DVD, one of the actual recorded language is automatically selected.		
SUBTITLE	Sets the language for subtitle. Select a setting from off, English, German, French, Spanish, Italian, etc. If the selected language is not available on the DVD, one of the actual recorded language is automatically selected.		
TV TYPE	Sets the screen aspect of your TV. Select a setting from "4:3 PS" (4:3 Pan&Scan), "4:3 LB" (4:3 Letter Box) and "16:9".		
TV SYSTEM	Sets the video signal system of your TV to "PAL", "NTSC" or "AUTO".  When using a TV compatible with both NTSC and PAL, set this to "AUTO".  Sip2  You can change the video signal system by pressing GUI when the OSD menu is displayed.  Notes  If you play a PAL-formatted disc with the "NTSC" setting or an NTSC-formatted disc with the "PAL" setting, the video quality may deteriorate.		
PARENTAL LOCK	Depending on the video format, the "AUTO" setting may not work properly. In this case, try the "NTSC" or "PAL" setting.  Sets the restriction level for the DVD playback.  Some DVD discs contain a restriction level which enables parents to remove scenes or prevent playback of discs by children. You can change a password to prevent children from changing a level. <password>  Use the number buttons to change the "PARENTAL LOCK" settings.  The default password is set to "1234".  <rating>  UNLOCK: "PARENTAL LOCK" is disabled.  LEVEL 1 to 7: The lower the level, the stricter the restrictions.  ADULT: Select this when you want to play all DVDs.  <change password="">  Enter a new password in both the "NEW PASSWORD" field and the "CONFIRM PASSWORD" field.</change></rating></password>		
DOWN SAMPLING	Sets the LPCM 48 kHz down sampling to "OFF" or "ON".  OFF: The audio signal output from the DIGITAL OPTICAL OUT jack is not down sampled.  ON: The audio signal output from the DIGITAL OPTICAL OUT jack is down sampled to LPCM 48 kHz.		
DIGITAL OUTPUT	Sets the output signal of the DIGITAL OPTICAL OUT jack to "RAW" or "PCM".  RAW: Outputs all types of digital signal that the DVD receiver can produce.  PCM: Converts the signal (except for DTS sources) to PCM before outputting it.  Note  Signals are not output from the speakers or AUX OUT jacks during playback of DTS sources.		
P-SCAN	Sets the output signal of the VIDEO OUT COMPONENT jacks.  OFF: Interlace signals are output from the VIDEO OUT COMPONENT jacks.  ON: Progressive signals are output from the VIDEO OUT COMPONENT jacks.  Si/2  You can turn on or off the Progressive Scan mode by pressing ZOOM when the OSD menu is displayed.		
SCREEN SAVER	Sets the screen saver function (page 22). ON: The screen saver works. OFF: The screen saver does not work.		
TV INPUT	(U.K. and Europe models only) Switches the input signals when the input source is set to TV between signals input at the TV IN jacks and signals input at AV terminal. NORMAL RCA: Signals input at the TV IN jacks are reproduced. SCART: Signals input at the AV terminal are reproduced.		
DivX Code	The DivX®VOD (Video On Demand) registration code appears.  Use this registration code to purchase or rent the videos from DivX®VOD service at www.divx.com/vod. Follow the instructions and download the video onto a CD-R/RW for playback on this receiver. Note that all the videos downloaded from DivX®VOD can only be played back on this receiver. For more information, go to www.divx.com/vod.		

# Englist

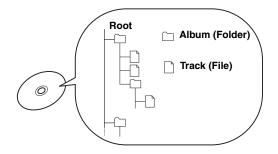
# SUPPORTED DISC TYPES

You can enjoy movie or music discs with the DVD receiver. Since some DVD receiver disc operations are limited to specific disc types, the supported disc types are indicated using the icons shown below. Each icon means that the operation is limited to the corresponding disc type. For information on supported disc standards and disc usage notes, refer to "Disc Information" (page 47) and "Handling a disc" (page 48). Operations with no icon indicated are available for all disc types.

DVD video	Video CD	Music CD
DVD-V	VCD	CD

#### About MP3, WMA, DivX® and JPEG discs

You can play MP3, WMA and DivX® files recorded on a CD-R or CD-RW with similar uses as a music CD or a DVD. The DVD receiver regards folders in the disc as albums, and files as tracks (as shown below). Also you can play JPEG picture files recorded on a CD-R or CD-RW. For details about how to play these files, refer to "ENJOYING MULTIMEDIA FILES ON DISCS" (page 32).



#### What is MP3?

"MP3 (MPEG-1 Audio Layer-3)" is a standard technology and format for compressing an audio sequence into a small-sized file. However it preserves the original level of sound quality when it is played.

#### Notes

- Depending on recording conditions such as recording software settings, the DVD receiver may not be able to play the disc or play tracks in the order they were recorded.
- The DVD receiver is compatible with a bit rate range of 32, 64, 96, 128, 192, 256 or 320 kbps and variable bit encoded MP3 files.
- The DVD receiver is compatible with a sampling frequency of 16, 32, 44.1, or 48 kHz.

#### What is WMA?

"WMA (Windows Media Audio)" is a Microsoft file format for encoding digital audio files similar to MP3 though can compress files at a higher rate than MP3.

#### What is JPEG?

"JPEG" is a compression format for still images. With only a slight drop in image quality (part of the data is removed), still image data can be compressed to approximately 1/10 to 1/100 of its original size.

#### Note

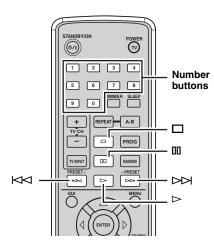
This unit does not support the progressive JPEG format.

#### What is DivX®?

"DivX®" is a video compression technology developed by DivX® Networks, Inc. It compresses digital video data to sizes small enough to be transported over the Internet without reducing the original video quality. You need DivX® codec software to play back DivX® movies or convert data to the DivX® format.

### **BASIC PLAYBACK OPERATIONS**

Follow the procedures below to carry out basic disc playback operations. The DVD receiver also provides various useful functions for disc playback. For details, refer to "USEFUL PLAYBACK OPERATIONS" (page 23).



#### ■ To start playback

Press >.

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- If you do not perform any operations for 180 minutes after a
  menu screen appears on your TV, the DVD receiver turns into
  the screen saver mode. To cancel the screen saver mode, press
  any button. If you do not perform any operations for 30 minutes
  after the DVD receiver turns into the screen saver mode, the
  DVD receiver turns into the standby mode.
- **CD** You can play back the first 10 seconds of each track by pressing and holding . Press again to play back the current track.

#### ■ To stop playback

Press .



Whenever you stop playback, the DVD receiver automatically memorizes the stopping position, and "RESUME" appears in the front panel display. If you press ▷, playback resumes from where it left off.

#### ■ To pause playback

Press 00

To return to normal playback, press ▶.

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If you do not perform any operations for 15 minutes after you stop or pause the disc playback, the DVD receiver turns into the screen saver mode. To cancel the screen saver mode, press any button. If you do not perform any operations for 30 minutes after the DVD receiver turns into the screen saver mode, the DVD receiver turns into the standby mode.

#### ■ To fast reverse or fast forward

`\o':

To fast reverse, press and hold  $\bowtie$ . To fast forward, press and hold  $\bowtie$ .

Once fast reverse or fast forward starts, you can change the speed (2X, 4X, 8X, or 20X) by pressing  $\triangleleft \triangleleft \triangleleft$  or  $\triangleright \triangleright \triangleleft$  repeatedly. Press  $\triangleright$  to resume the normal playback.

#### Note

The speakers do not produce any sound if you fast forward/reverse while playing a Dolby Digital disc.

#### ■ To skip chapters (tracks)

To skip to the start of the current chapter (track), press

To skip to the next chapter (track), press ►.

To skip to the previous chapter (track), quickly press ►.

twice.

#### Note

The Skip feature may not work properly when using Playback Control (page 27) to play a video CD.

# ■ To specify a track for playback VCD CD

Use the number buttons to enter the track number you want to play and then press ▶.

To enter 2-digit number, press a number button for the second digit place, then press a number button for the first digit place.

### **USEFUL PLAYBACK OPERATIONS**

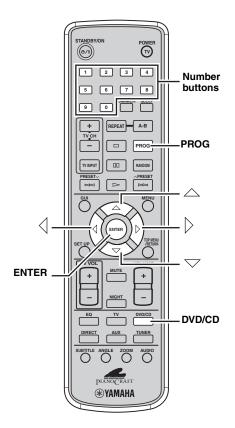
You can enjoy movie or music discs with various useful features on the DVD receiver. For information on basic disc playback operations, refer to "BASIC PLAYBACK OPERATIONS" (page 22).

### Customizing playback order (Program Play)

You can customize the playback order. You can also display the playback order or clear all Program Play contents after customizing the playback order.

#### Note

To customize playback order, turn on the TV connected to the DVD receiver.



#### Press DVD/CD, then press PROG while the disc playback is stopped.

The "Program Input" screen appears on the TV screen.

- 2 Press number buttons to enter a track or title/ chapter pair to be programmed.
- 3  $\triangle / \nabla / \langle \rangle$  to move the cursor to the next field.
- Repeat steps 2 and 3 until you store all desired

You can store up to 12 tracks or title/chapter pairs.

#### Press $\triangle / \nabla / \langle / \rangle$ to select "Play Program" and then press ENTER.

The "PROG" indicator lights up in the DVD receiver display, the OSD menu disappears, and Program Play starts automatically. If playback does not start automatically, press .

#### Note

The program play function is not available when the video CD Playback control feature is turned on.

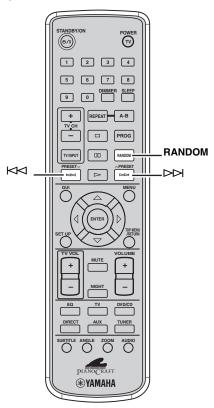
You can play the programmed tracks repeatedly (page 25).

# Playing back randomly (Random Play)

You can shuffle tracks or chapters.

#### Notes

- Random Play may not work depending on DVD disc types.
- If you press ⋈ during random playback, the next track or chapter will be randomly selected and played. If you press ⋈, the currently played track or chapter will be played from the beginning. A track or chapter cannot be replayed during random playback.



#### Press RANDOM.

The "RANDOM" indicator lights up in the DVD receiver display.

#### ■ To cancel Random Play

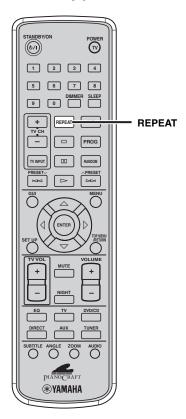
Press RANDOM again.

# Playing back repeatedly (Repeat Play)

You can repeat single chapter (track), single title, or entire disc. Also, you can set two points (start and end points) to repeat the specified section of a title (track) with A-B Repeat (page 26).

#### Notes

- Repeat Play may not work depending on DVD disc types.
- Repeat Play does not work while playing back a video CD using the Playback control feature (page 27).



# 1 Play back the disc, title, chapter or track you want to repeat.

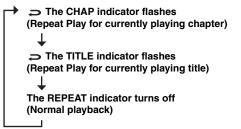
For details, refer to "BASIC PLAYBACK OPERATIONS" (page 22).

#### 2 Press REPEAT repeatedly.

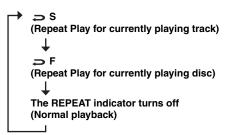
The REPEAT indicator ( ) lights up in the DVD receiver display.

Each time you press REPEAT, the indicator in the DVD receiver display changes as follows:

#### DVD-V



#### VCD CD



#### ■ To cancel Repeat Play

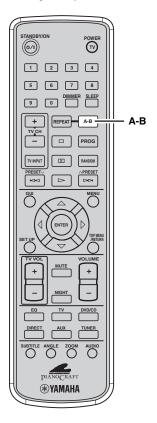
Press REPEAT repeatedly until the REPEAT indicator turns off.

# ■ To repeat between two points (A-B Repeat)

You can repeat the specified section of a title (track) by setting two points (start and end points).

#### Notes

- A-B Repeat may not work depending on DVD disc types.
- You can use A-B Repeat only within one title (track).



1 Play back the title or track that includes the section you want to repeat.

For details, refer to "BASIC PLAYBACK OPERATIONS" (page 22).

2 At the position where you want to set as the start point of the repeat section, press A-B.

The" A-" indicator lights up in the DVD receiver display.

3 At the position where you want to set as the end point of the repeat section, press A-B again.

A-B Repeat starts.

The "A-B" indicator lights up in the DVD receiver display.

#### ■ To cancel A-B Repeat

Press A-B again.

The "A-B" indicator turns off, and A-B Repeat is canceled.

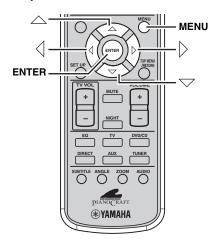
### Operating disc menus (DVD menu/ Video CD Playback Control)

Many DVDs and video CDs include original navigational menus called "DVD menus" and "video CD Playback Control menus". These menus provide a convenient way to operate the disc. Follow the procedure below to use a DVD menu or video CD Playback Control with the DVD receiver.

#### Note

Menu contents or operation method of each disc may vary. For information about the disc you are using, refer to the operating instructions in the disc's menu or on its jacket.

#### ■ To operate the DVD menu DVD-V



#### 1 Press MENU.

The DVD menu appears on the TV screen.

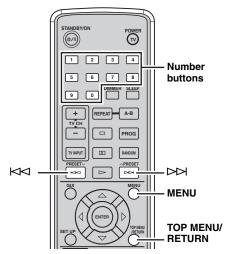
``@´<u>·</u>

Depending on the disc, the DVD menu may automatically appear after the disc is loaded.

# Press △ / ▽ / ﴿ / ▷ to select a menu item, then press ENTER.

# ■ To operate the video CD Playback Control menu VCD

If you play back a video CD that includes the Playback Control feature, the menu automatically appears on the TV screen. To operate the Playback Control feature with the remote control, use the following buttons.



**MENU:** Turns on or off the Playback Control feature.

Number buttons: Selects an item. 
Moves to the next screen.

or TOP MENU/RETURN: Returns to the previous

screen.

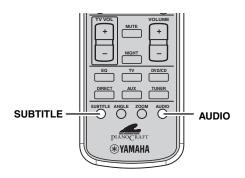
# SELECTING AUDIO, SUBTITLE AND ANGLE DVD

You can select audio and subtitle languages for DVD playback. You can also select a viewing angle for DVD playback.

#### Note

This selection is available only with multi-language or multi-angle compatible discs. For information about the disc you are using, refer to the operating instructions in the disc's menu or on its jacket.

# Selecting Audio and Subtitle Languages



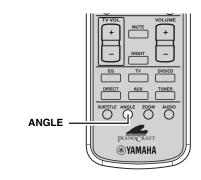
While playing a disc or pausing, press AUDIO or SUBTITLE repeatedly to select the language you want to use for audio or subtitle.

The audio language or subtitle language appears on the TV screen.

#### ■ To turn off the subtitle

Select "Off".

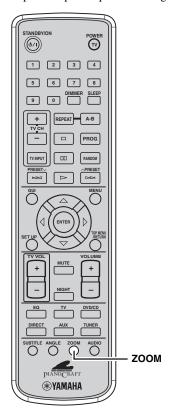
### Selecting a Viewing Angle



While playing a disc, press ANGLE repeatedly to select the viewing angle.

# ZOOMING IMAGES DVD=VI

You can zoom in a specified part of picture during DVD or video CD playback.

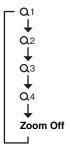


# 1 While playing a disc or pausing, press ZOOM.

The current zoom setting appears on the TV screen.

# 2 Press ZOOM repeatedly to select the zooming scale.

Each time you press ZOOM, the zooming changes as follows:



#### ■ To return to the original scale

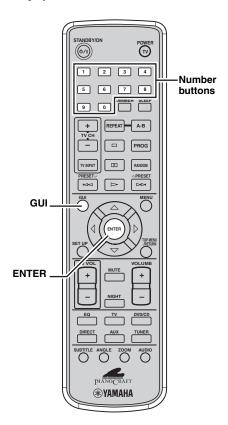
Select "Zoom Off".

`\\\

You can also zoom VCD, JPEG and DivX® images.

# **USING GUI**

You can view various information of the currently played disc on the TV screen and specify an elapsed time where you want to start playback.



1 While playing a disc or pausing, press GUI.

The disc type, elapsed time, remaining time, title/chapter/track information, angle information, audio information, subtitle information and bitrate are displayed.



2 Press GUI again.

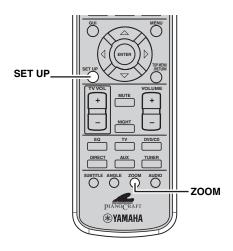
The elapsed time input screen appears.

3 Use the number buttons to enter the elapsed time where you want to start playback and then press ENTER.

If you press GUI without pressing the number buttons, the elapsed time input screen disappears.

# ENJOYING HIGH-QUALITY VIDEO (NTSC/PROGRESSIVE SCAN)

Progressive Scan is video that represent a frame with one pass of sequential scan lines whereas interlace output video, which is usually adopted for most TVs, represents a frame with two passes. Progressive Scan provides better video quality by reducing picture noises. To enjoy DVDs with Progressive Scan, you need to connect the DVD receiver to a TV that has component video input jacks compatible with Progressive Scan. For details on connections, refer to "Other connection methods" (page 9).



# ■ To turn on the Progressive Scan mode While disc playback is stopped, press SET UP to display the OSD menu and then press ZOOM. The Progressive Scan mode is activated and the "PROGRESSIVE" indicator lights up in the DVD receiver display.

■ To turn off the Progressive Scan mode
While disc playback is stopped, press SET UP to
display the OSD menu and then press ZOOM.

#### `\o':

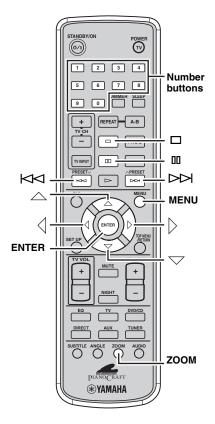
- When the Progressive Scan mode is off, the DVD receiver provides video with interlace output mode.
- During playback, you cannot switch between the Progressive Scan mode and the interlace output mode.

#### Notes

- If you play video with a 4:3 aspect ratio on a 16:9 wide television screen, Progressive Scan may fill the screen top to bottom. In this case, change the screen aspect setting of your TV with the OSD menu (page 19). If you cannot adjust the ratio, press SET UP to display the OSD menu and then press ZOOM to turn off the Progressive Scan mode (use the interlace output mode).
- CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT YOU SWITCH THE CONNECTION TO THE "STANDARD DEFINITION" OUTPUT. IF THERE ARE QUESTIONS REGARDING YOUR VIDEO MONITOR COMPATIBILITY WITH THIS UNIT, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.
- This unit is compatible with the complete line of projectors and plasma displays made by YAMAHA.

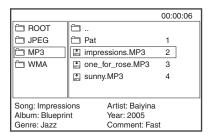
### **ENJOYING MULTIMEDIA FILES ON DISCS**

This DVD receiver can play MP3, WMA, DivX® and JPEG files on a personally recorded CD-R/RW disc or commercial CD



#### 1 Load a disc in the disc tray.

The disc menu appears on the TV screen.



The disc reading time may exceed 30 seconds due to the complexity of the directory/file configuration.

# 2 Press △ / ▽ to select a desired folder and press ENTER to open the folder.

To move to the upper folder, select the folder icon with two dots.

# 3 Press △ / ▽ to select a file and press ENTER to confirm.

Playback will start from the selected file to the end of the folder.

When you select a JPEG file, a slide show of the current folder automatically begins. Press 🗓 to pause the slide show or press 🗆 to display the list screen. To select the previous/next file, press 🖂 / >>.

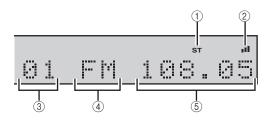
#### `\\\

- You can select a file by pressing number buttons.
- Depending on the JPEG CD, you can display the thumbnail screen by pressing MENU. Press ✓ / ✓ / ✓ / ✓ / ✓ and ENTER to select a picture to be displayed in full screen.
- You can rotate the displayed image by pressing  $\triangle$  /  $\langle$  /  $\rangle$  when a picture is displayed in full screen.

### **TUNING RADIO STATIONS**

The DVD receiver provides several methods for tuning AM/FM radio stations, such as Auto Tuning, Manual Tuning and Preset Tuning. Follow the procedure below to tune your favorite radio stations.

### About the display



#### 1 ST indicator

Lights up when receiving a strong FM radio signal.

### ② III indicator

Lights up when receiving a strong radio signal.

#### ③ Preset number

Displays the preset number (page 35).

#### (4) Band

Displays the band (AM or FM).

### (5) Frequency

Displays the frequency.

# Tuning radio stations automatically (Auto Tuning)

If the radio wave reception is strong in your area, Auto Tuning is a quick and useful way to tune radio stations.

1 Press INPUT on the front panel repeatedly to select AM or FM.

Each time you press the button, the mode changes between "AM" and "FM".

### 2 Press MODE to select "TUNING MODE" and then rotate MULTI JOG clockwise quickly.

The DVD receiver automatically detects radio stations that have strong signals for your selection.

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You can switch the tuning mode for FM radio stations. Press  $\square$  on the remote control to switch the tuning mode between stereo and mono.

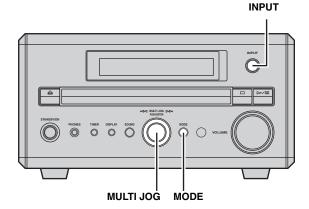
### To switch the frequency step (General model only)

Because the interstation frequency spacing differs in different areas, you may need to switch the frequency step mode.

### North, Central and South America: 100 kHz/10 kHz

Follow the procedures below to set the frequency steps. While the DVD receiver is set to the standby mode, press and hold both SOUND and INPUT on the front panel, then press and hold STANDBY/ON on the front panel for 4 seconds or longer.

The frequency step mode will be set to 100 kHz/10 kHz.



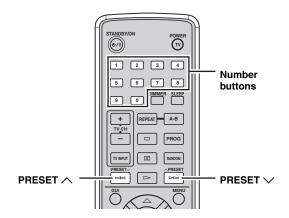
# Tuning radio stations manually (Manual Tuning)

If the radio wave reception is weak in your area, tune radio stations manually.

- 1 Press INPUT on the front panel repeatedly to select "AM" or "FM".
- 2 Press MODE to select "TUNING MODE" and then rotate MULTI JOG to adjust the frequency.

# Selecting preset radio stations (Preset Tuning)

If you preset your favorite radio stations with Auto Preset (page 35) or Manual Preset (page 35) on the DVD receiver, you can tune the radio stations simply by selecting the preset number.



Use the number buttons or press PRESET  $\wedge$  / $\vee$  repeatedly to select the preset number of the radio station you want to listen to.

`\\\

You can also select preset radio stations by rotating MULTI JOG on the front panel.

### PRESETTING RADIO STATIONS

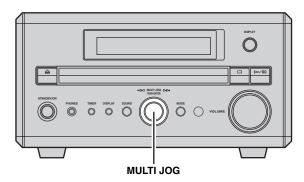
You can preset your favorite radio stations to tune the stations simply by selecting the preset number. The DVD receiver can store up to 20 AM stations and 30 FM stations in its memory.

# Presetting radio stations automatically (Auto Preset)

Follow the procedure below to preset radio stations automatically.

# Presetting radio stations manually (Manual Preset)

Follow the procedure below to preset radio stations manually.



### Press and hold MULTI JOG for 3 seconds or longer.

Auto preset starts at the lowest frequency toward the highest frequency.

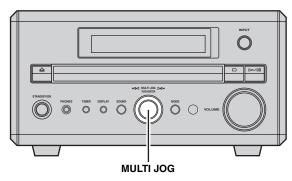
The DVD receiver automatically applies a preset number to each detected stations.

### Note

You can preset up to 20 AM stations and 30 FM stations with Auto Preset.

`\o':

You can delete the currently selected preset station by pressing  $\square$ . You can also delete all the preset stations by pressing and holding  $\square$  for 3 seconds or longer.



Tune the radio station you want to preset. For details, refer to "TUNING RADIO STATIONS" (page 33).

#### 2 Press MULTI JOG.

The MEMORY indicator blinks in the DVD receiver display for about 5 seconds.

Within 4 seconds, rotate MULTI JOG to select the preset number (1 to 20 for AM, 1 to 30 for FM) to where you want to store the currently selected station.

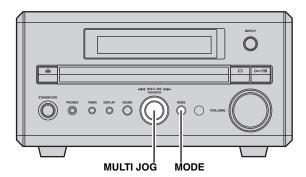
### Press MULTI JOG.

\\\\\

You can delete the currently selected preset station by pressing  $\square$ . You can also delete all the preset stations by pressing and holding  $\square$  for 3 seconds or longer.

# Editing the name of preset radio stations

Follow the procedure below to edit the name of preset radio stations.



### 1 Select the preset radio station you want to edit the name.

For details, refer to "Selecting preset radio stations (Preset Tuning)" (page 34).

### 2 Press and hold MODE for more than 4 seconds.

The cursor flashes in the DVD receiver display.

### 3 Rotate MULTI JOG to select a character, then press MULTI JOG to enter the character.

The cursor moves to the next.

You can enter alphabets (A to Z) and numbers (0 to 9).

To enter a blank space, select " " between "Z" and "0"  $\,$ 

To delete the previously input character, press  $\square$ . To delete all the characters, press  $\square$  for more than 3 seconds.

### 4 Repeat step 3 until you finish entering.

### 5 Press MODE.

The name of the preset station is stored.

## english

### **PLAYING BACK EXTERNAL SOURCES**

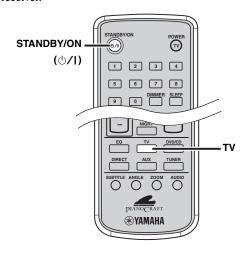
If you connect an external component to DVD receiver, you can enjoy sources played back on that component with DVD receiver. For details on connection methods, refer to "CONNECTING A TV" (page 9) and "CONNECTING EXTERNAL COMPONENTS" (page 11). Also, you can operate your TV using the remote control by setting a remote control code (page 41).

#### Note

Make sure you read the owner's manual for your external component before making any connections or operating it.

### TV playback

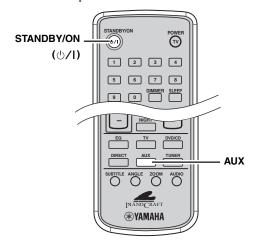
If you connect the TV L/R jacks on the DVD receiver to the audio output L/R jacks on your TV using an audio pin cable (page 9), you can enjoy TV sounds with the DVD receiver.



- 1 Turn on the TV, then press STANDBY/ON ((b/|)) to turn on the DVD receiver.
- 2 Press TV.

### Other component playback

If you connect the AUX IN L/R jacks on the DVD receiver to the audio output L/R jacks on your component using an audio cable (page 11), you can enjoy the sources played back on the component with the DVD receiver.



- 1 Turn on the component, then press STANDBY/ON (७/۱) to turn on the DVD receiver.
- 2 Press AUX.
- 3 Start playback on the connected component.

### RECORDING SOURCES WITH EXTERNAL COMPONENTS

If you connect an external recorder to the DVD receiver, you can record sources played back on the DVD receiver. For details on the connection methods, refer to "CONNECTING EXTERNAL COMPONENTS" (page 11).

#### Note

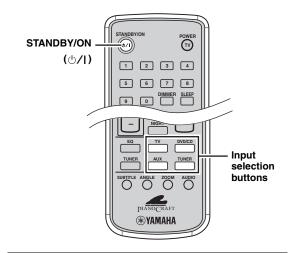
Make sure you read the manuals for your equipment to operate them.

## Recording audio sources with the DVD receiver

If you connect the DIGITAL OPTICAL OUT jack on the DVD receiver to the optical digital input jack on an external recorder such as a CD recorder or MD recorder using optical cables (page 11), you can record audio sources from the DVD receiver.

### Notes

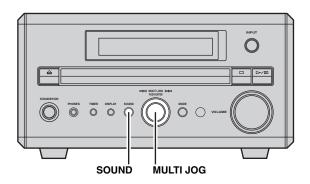
- Radio stations are not output from the DIGITAL OPTICAL OUT jack. To record AM/FM broadcasts, use a commercially available audio cable to connect the AUX OUT L/R jack on the DVD receiver to the analog input jack on your recorder.
- Be sure to perform a test recording before an actual recording.
- Turning off the external recorder connected to the DVD receiver may distort playback sounds or reduce the volume. In this case, turn on the external recorder.
- The volume level and audio quality have no effect on the recorded sound during recording. However, if the input source is set to DVD/CD, the output sound for recording may cut off if the headphones are connected/disconnected.
- Depending on the recorder, some DTS software audio signals may not record properly.
- Audio recordings that you make cannot be used for any purpose other than private enjoyment without the consent of the copyright holder.



- 1 Turn on the recorder, then press STANDBY/ON (७/١) to turn on the DVD receiver.
- 2 Use the Input selection buttons to select the input source.
- 3 Start recording on the recorder, then start playback.

### **ADJUSTING SOUNDS**

You can adjust following sound settings: BASS, TREBLE, L/R BALANCE, EQ MODE, and the DIRECT mode.



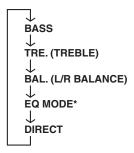
### Note

These settings have no effect on the recorded sound during recording.

### Adjusting Sound Settings

### 1 Press SOUND repeatedly to select the setting you want to adjust.

Each time you press SOUND, the display changes as follows:



\* The currently selected EQ mode is displayed in the DVD receiver display.

### 2 Rotate MULTI JOG to adjust each setting.

BASS: Adjusts the BASS level.

(-10 to +10 dB)

TREBLE: Adjusts the TREBLE level.

(-10 to +10 dB)

L/R BALANCE: Adjusts the speaker balance.

(L+6 dB to R+6 dB)

EQ MODE: Selects the equalizer mode.

(ROCK, POP, JAZZ, CLASSIC,

FLAT)

DIRECT: Turns on/off the DIRECT mode.

When this is set to ON, a sound comes directly without Digital Signal Processor (DSP) processing.

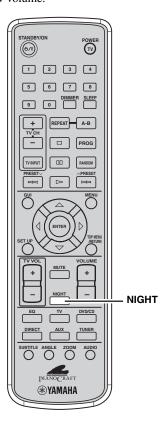
### 3 Press MULTI JOG.

### `\\\

- You can select the EQ MODE by pressing EQ on the remote control repeatedly.
- You can turn on/off the DIRECT mode by pressing DIRECT on the remote control.

### Night listening mode

Since night listening mode tones down large sound effect and clears speech or vocal sounds, you can enjoy sources even at low volume.



### Press NIGHT.

Each time you press NIGHT, the night listening mode changes as follows:



### ■ To cancel the Night listening mode

Press NIGHT repeatedly to select "NIGHT OFF".

### **CONTROLLING EXTERNAL COMPONENTS**

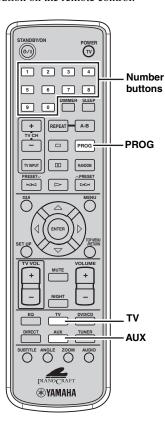
In addition to controlling this unit, you can operate external components with the remote control for the DVD receiver by selecting the appropriate remote control code (refer to "LIST OF REMOTE CONTROL CODES" at the end of this manual).

### Note

Depending on the product, the remote control may not be able to operate the external component. In this case, use the remote control supplied with the product.

### Setting remote control codes

You can set a remote control code for TV on the TV button on the remote control, and a remote control code for Cable TV or Digital Broadcast Satellite tuner on the AUX button on the remote control.



- 1 Press TV or AUX to set the input source of the DVD receiver to the component you want to operate with the remote control.
- While holding down PROG, press TV or AUX, then while still holding down PROG, press the number buttons to enter the three-digit remote control code (refer to "LIST OF REMOTE CONTROL CODES" at the end of this manual) for the manufacturer of your component.
- 3 Refer to "Available operations" (page 42) and try one of the button operations for your component to check that the setting is working properly.

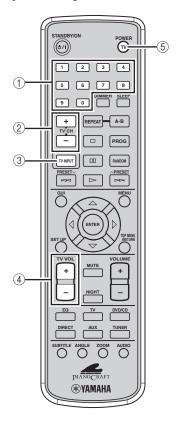
If the button operation does not work properly, the remote control code may be incorrect. In this case, perform step 1 again.

#### Notes

- Even if you set a remote control code, it will be cleared about
  two minutes after the remote control batteries run out. In this
  case, store remote control codes again after replacing the
  batteries. (Be careful not to press the remote control buttons
  while replacing the batteries. Doing so may clear the settings.)
- If the manufacturer of your component has more than one code, try each of them until you find the correct one.

### Available operations

By carrying out step 1 in "Setting remote control codes" (page 41), you can operate the following functions on the external components using the remote control.



### Functions for TV operation (TV)

### Number buttons

Enters a channel number.

② TV CH +/-

Switches the TV channels.

### ③ TV INPUT

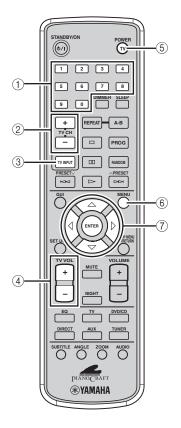
Switches the TV inputs.

(4) TV VOL +/-

Adjusts the TV volume level.

#### ⑤ POWER TV

Turn the TV on, or set it to the standby mode.



### Functions for Cable TV and Digital Broadcast Satellite tuner operation (AUX)

#### Number buttons

Enters a channel number.

② TV CH +/-

Switches the channels.

③ TV INPUT

Switches the TV inputs.

4 TV VOL +/-

Adjusts the TV volume level.

### **5** POWER TV

Turns the Cable TV or Digital Broadcast Satellite tuner on, or set it to the standby mode.

### **6** MENU

Displays the OSD menu (Digital Broadcast Satellite tuner only).

 $\bigcirc$   $\triangle$  /  $\bigcirc$  /  $\bigcirc$  , ENTER

Operates the OSD menu.

### **TROUBLESHOOTING**

If there is any problem with your DVD receiver system, check the following items. If you cannot solve your problem with the following remedies or if your problem is not listed below, turn off and unplug the DVD receiver, then consult the nearest authorized YAMAHA dealer or service center.

### General

Problem	Cause	Solution
Power turns on but	The power cable may be connected	Make sure the power cable is plugged
immediately shuts off.	improperly.	into the outlet firmly (page 12).
	The speaker cable may be shorted.	Make sure all speaker cables are
		connected properly (page 8).
	The DVD receiver may receive a	Set the DVD receiver to the Standby
	strong electrical shock such as from a	mode, then disconnect the power cable.
	lightening bolt or excessive static	Wait for about 30 seconds, then connect
	electricity.	the power cable and turn on the DVD
		receiver.
The speakers make no	The volume may be set to minimum	Adjust the volume level (page 15).
sound.	level.	
	The Mute function may be enabled.	Cancel the Mute function (page 15).
	The input source may be incorrect.	Select the correct input source (page
		14).
	The cables may be connected	Make sure all cables are connected
	improperly.	properly (page 7).
	The disc loaded into the DVD	Make sure you use a disc supported by
	receiver may be not compatible.	the DVD receiver (page 21).
	You are playing a DTS source.	Make a digital connection to a
		component that features a DTS decoder
		and select "RAW" for "DIGITAL
		OUTPUT" with OSD menu (pages 12
		and 20).
The TV shows no picture.	The cables may be connected	Make sure all cables are connected
	improperly.	properly (page 9).
Sound suddenly turns off.	The sleep timer (page 17) might be	Turn on the DVD receiver and play the
Occupation to a large and	set.	source again.
Sound is too low on one	The cables may be connected	Make sure all cables are connected
side.	improperly.	properly (page 7).
The volume does not	The power of the equipment connected to the DVD receiver's	Turn on the power of the equipment
increase or sounds are		connected to the DVD receiver's output
distorted.	output jack may be turned off.	jack.
A source being played back	You may be trying to make a digital	Use the analog recording method
on the DVD receiver (DVD, CD, AM/FM broadcast, etc.)	recording of an AM/FM broadcast.	(pages 11 and 38).
does not record when using		
an external component.		
an external component.		

### TROUBLESHOOTING

Problem	Cause	Solution	
The DVD receiver does not	The DVD receiver may receive a	Set the DVD receiver to the Standby mode,	
operate properly.	strong electrical shock, such as from	then disconnect the power cable. Wait for	
	a lightening bolt or excessive static	about 30 seconds, then connect the power	
	electricity, or drop in power supply.	cable and turn on the DVD receiver.	
A digital equipment or	The DVD receiver may be placed	Place the DVD receiver further away from	
high-frequency equipment	close to the digital equipment or	such equipment.	
produces noises.	high-frequency equipment.		
Sound played on the DVD	You may be trying to make a digital	Use proper audio sources.	
receiver cannot be	recording with an analog source.		
recorded with an external			
recorder.			
The clock setting has	The power to the DVD receiver may	Make sure the power cable is plugged into	
been cleared.	be lost more than a week.	outlet firmly, then set the clock again	
		(page 16).	

### Remote control

Problem	Cause	Solution
The remote control does not work for operating the DVD receiver.	The remote control may be operated outside the remote control operation range.	For information on the remote control operation range, refer to "USING THE REMOTE CONTROL" (page 13).
	The remote control sensor on the DVD receiver may be exposed to direct sunlight or lighting (inverted fluorescent lamps).	Change the lighting or DVD receiver's orientation.
	The remote control mode selection may be improper.	Select the mode that suits your purpose (page 5).
	The batteries may be worn out.	Replace the batteries with new ones. (page 13).
The remote control does not work for operating TV.	The remote control code may be incorrect.	Set the correct remote control code (page 41). Depending on the model and year of the product, the remote control may not be able to operate it partly or wholly. In this case, use the remote control supplied for the product.

### Disc playback

Problem	Cause	Solution
Some button operations do	Some discs do not support certain	
not work.	DVD receiver functions.	
Playback does not start	The disc may not be set in the disc	Set the disc in the disc tray properly.
immediately when pressing	tray properly.	
⊳.	The disc may be dirty.	Wipe the disc clean.
	The disc loaded into the DVD receiver	Make sure you use a disc supported by
	may be not compatible.	the DVD receiver (page 21).
	When moved the DVD receiver from	Wait for one to two hours, then try
	a cold place to warm one,	again.
	condensation may be form on the	
	disc reading lens.	
An audio or subtitle	The disc may not support the multi-	Make sure you use a disc that supports
language does not switch.	language feature.	the multi-language feature.
No subtitles appear.	The subtitle may be set to "Off".	Select a subtitle language you want to
		display (page 28).
	The disc may not contain subtitle	Make sure you use a disc with subtitle
	data.	data.
	When using the A-B Repeat function,	Cancel the A-B Repeat function
	the subtitle may not appear at the	(page 26).
	parts other than the selected section.	
A viewing angle does not	The disc may not support the	Make sure you use a disc that supports
switch.	multi-angle feature.	the multi-angle feature.
DVD videos cannot be	You may be trying to copy a	Most commercially available DVDs
copied with the VCR.	copy-protected DVD.	include copy protect features. You
		cannot make a copy of these DVDs.
Picture looks poor.	In some cases, picture may look poor	
	while fast forwarding or reversing,	
	but this is not a defect.	
The TV (monitor) does not	The picture settings may be	Adjust the picture settings with the
show the picture properly.	improper.	OSD menu (page 19).
	The Progressive Scan mode may be	Turn off the Progressive Scan mode
	used with a TV that does not support it.	(page 31).
The screen size of the TV	The picture settings may be	Adjust the picture settings with the
(monitor) looks strange.	improper.	OSD menu (page 19).
	When the Progressive Scan mode is	Change "TV TYPE" with the OSD
	activated, image with a 4:3 aspect	menu (page 19).
	ratio are played on a 16:9 wide	If you cannot adjust the ratio, turn off
	television screen.	the Progressive Scan mode and use the
		interlace output mode (page 31).
The TV shows overlapped	The disc content does not match the	Turn off the Progressive Scan mode
picture partly.	Progressive Scan mode due to the	(page 31).
	editing method or other conditions.	
The disc is ejected without	The disc loaded into the DVD receiver	Make sure you use a disc supported by
an operation.	may be not compatible. the DVD receiver (page 21)	
The message "No Disc"	The disc may not be set in the disc Set the disc in the disc tray	
appears in the DVD receiver	tray.	
display even though a disc		
is inserted.		

### Radio reception

### ■ FM/AM

Problem	Cause	Solution	
The Preset Tuning function	The preset (memory) may have been	Preset radio stations again (page 35).	
(page 34) does not work.	erased.		
The preset station settings	The power to the DVD receiver may	Make sure the power cable is plugged	
have been cleared.	be lost more than a week.	into outlet firmly, then preset the	
		stations again (page 35).	

### ■ FM

Problem	Cause	Solution	
Too much noise is	The FM antenna may be connected	Make sure the FM antenna is connected	
generated during stereo	improperly.	properly (page 10).	
broadcast.	The radio station you selected may	Try Manual Tuning to increase the	
	be far away from your area or radio	signal quality (page 33) or use a	
	wave reception is weak in your area.	multi-channel outdoor antenna.	
Even with an outdoor	Multipath reflection or other radio	Change the antenna's height, direction,	
antenna, radio wave	interferences may occur.	or placement.	
reception is weak (audio is			
distorted).			
The Auto Tuning function	The radio station you selected may	Try Manual Tuning to increase the	
(page 33) does not work.	be far away from your area or radio	signal quality (page 33) or use a multi-	
	wave reception is weak in your area.	channel outdoor antenna.	

### ■ AM

Problem	Problem Cause Solution		
Too much noise is generated.	The noises may be generated from atmospheric electricity, lightening, fluorescent lights, motors, or thermostat electric devices.	Connect an outdoor antenna and establish better grounding to decrease noises. However, it is difficult to eliminate these types of noises.	
	If too much noise is generated especially in the evening, the DVD receiver may be placed close to a TV.	Place the DVD receiver further away from a TV.	
The Auto Tuning function (page 33) does not work.	The AM loop antenna may be connected improperly.	Make sure the AM loop antenna is connected properly (page 10).	
	The radio station you selected may be far away from your area or radio wave reception is weak in your area.	Try Manual Tuning to increase the signal quality (page 33).	

### **ADDITIONAL INFORMATION**

### Disc Information

The following tables explain the disc types supported by the DVD receiver.

#### **Video Discs**

Type of Disc	Disc Logo Mark		
DVD Video	VIDEO VIDEO		
SVCD (Super Video CD)	COMPACT DIGITAL VIDEO		
Video CD	VIDEO CD DIGITAL VIDEO		
	COMPACT DIGITAL AUDIO RECOrdable Video CDs made by copying an MPEG movie file onto a CD-R or CD-RW		

### This DVD receiver can play:

- MP3, WMA and picture (Kodak, JPEG) files recorded on CD-R(W).
- JPEG/ISO 9660 format
- DivX® recorded on CD-R[W]/DVD+R[W]/ DVD-R[W](3.11, 4.x and 5.x)

### **DVD** region codes

The region code (an ID number assigned to each market region) is set for normal DVD players and DVD video discs. The DVD receiver supports the discs with the region codes shown in the right table. For details, read the information on the disc jacket.

Destination	Region code of DVD receiver	Playable discs
U.S.A. Canada		
U.K. Europe	2	
Australia		
Korea General Asia	3	3

#### **Music Discs**

Type of Disc	Disc Logo Mark		
Music CD (Compact disc	COMPACT DIGITAL AUDIO		
digital audio)	COMPACT DIGITAL AUDIO Recordable	COMPACT DIGITAL AUDIO ReWritable	Music CDs made by copying onto a CD-R or CD-RW (including MP3 or WMA format files)

`\o'\_

Disc logo marks are printed on the disc and the disc jacket.

### Notes

- The following discs cannot be played on the DVD receiver.
   CD-ROM, DVD-ROM, DVD-RAM, CDV. (This product can play some types of DVD-R (Video format only), DVD-RW (Video format only), DVD+R or DVD+RW discs.)
- The DVD receiver cannot play a CD-R, CD-RW, DVD-R, DVD-RW, DVD+R or DVD+RW disc that has not been finalized. Finalizing is a process that prepares a disc for playback on a compatible device.
- Only use discs from a reputable manufacturer. Some discs cannot be played back, depending on recording conditions and disc characteristics.
- · Do not use discs with non-standard shapes or sizes.



- Some DVD video or video CD discs may operate and function differently than noted in this manual. That is by manufacturer design and not a defect in this unit. For details read the information on the disc jacket.
- This unit can play the disc types associated with the logos shown on page 47. (Do not attempt to load any other type of disc into the unit, or the unit may be damaged.)
- Some discs cannot be played depending on the recording conditions such as PC environment and application software.
   Failure can also result from disc characteristics and condition, like material quality, scratches or curvature.

### Handling a disc

 Do not touch the surface of the disc. Hold a disc by its edge and center hole.



- Do not leave a disc in the tray when you are not playing it.
- Do not write on the disc with a pencil or other marker.
- Do not stick tape, seals or other attachments to a disc, and do not bring into contact with glue.
- Do not use a protective cover to prevent scratches.
- Do not use a disc whose surface can be printed with a commercially available label printer.
- Do not put a disc in a place with direct sunlight, high temperature, high humidity or a lot of dust.



- If a disc becomes dirty, wipe it with a clean, dry cloth from the center out to the edge. Do not use record cleaner or paint thinner.
- To avoid malfunction, do not use a commercially available lens cleaner.



### GLOSSARY

### Audio formats

### Dolby Digital

Dolby Digital is a digital surround sound system that gives you completely independent multi-channel audio. With 3 front channels (left, center, and right), and 2 surround stereo channels, Dolby Digital provides 5 full-range audio channels. With an additional channel especially for bass effects, called LFE (low frequency effect), the system has a total of 5.1-channels (LFE is counted as 0.1 channel). The DVD receiver downmixes the multi-channel audio to 2 channel so that you can enjoy Dolby Digital sources easily.

### ■ Linear PCM (LPCM)

A signal that is changed to digital format without compression. A CD is recorded with 16-bit sound at 44.1 kHz, while DVD recording is anywhere from 16 bits at 48 kHz to 24 bits at 192 kHz, which makes it a higher quality sound than CD. This signal also has a type called Packed PCM (P.PCM) that can be compressed without any loss of data.

### Audio information

### ■ Dynamic range

The difference between the smallest sound that can be heard above the equipment noise and the biggest sound that can be heard without distortion is the dynamic range.

### Sampling frequency and quantized bit rate

When converting an analog signal to digital, the number of times the signal is sampled per second is called the sampling frequency, while the degree of fineness when converting the sound level into a numeric value is called the quantized bit rate.

The frequency band that can be played back is determined by the sampling rate, while the dynamic range expressing the difference in sound level is determined by the quantized bit rate. In principle, the higher the sampling rate, the wider the frequency range that can be played back, and the higher the quantized bit rate, the finer the sound that can be reproduced.

### ■ Track (CD/Video CD)

A CD or Video CD can be divided into a number of segments (tracks). Each division is called a title number.

### Video signal information

### ■ Component video signal

With the component video signal system, the video signal is separated into the Y signal for the luminance and the PB and PR signals for the chrominance. Color can be reproduced more faithfully with this system because each of these signals is independent. The component signal is also called the "color difference signal" because the luminance signal is subtracted from the color signal.

#### ■ Decoder

A device that converts encoded data on DVD and other media back to its original audio or video signal.

#### ■ Film and video data

In general, DVD media can be classified into the 2 types below.

· Film Data

Video recorded at 24 frames/second. (The film used for shooting movies is recorded at 24 frames/second.)
Recently 30 frames/second progressive video has made its debut.

· Video Data

Video recorded at 30 frames/second.

DVD receiver will automatically recognize whether the source recorded on DVD is film or video, then select the best method to convert it into progressive output.

#### Interlace and progressive outputs

Up to now the standard video signal has been NTSC with 525i (i: interlaced) scan lines. In contrast, 525p (p: progressive) is a high-density signal with double the number of scan lines.

#### NTSC

NTSC is a video signal system (525 lines, 30 frames per second) used in North America, Central America, a number of South American countries, and some Asian countries, including Japan.

#### ■ PAL

PAL is a video signal system (625 lines, 25 frames per second) used in the United Kingdom, much of the rest of western Europe, several South American countries, some Middle East and Asian countries, several African countries, Australia, New Zealand, and other Pacific island countries.

### ■ Title, Chapter (DVD Video)

DVD video lets you divide a disc in a big way by titles or a small way by chapters. Each division is either called a title number or a chapter number.

### Copyright and logo marks

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



"DTS" and "DTS DIGITAL OUT" are trademarks of Digital Theater Systems, Inc.

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.





"DivX", "DivX Certified", and associated logos are trademarks of DivXNetworks, Inc and are used under license.

# щ

### **SPECIFICATIONS**

$ \begin{array}{llllllllllllllllllllllllllllllllllll$
AUX etc
Frequency Response     AUX etc
Signal to Noise ratio     (20 kHz Factory LPF, IHF-A network, Shorted)     AUX etc (0 dB Input)
VIDEO SECTION
Video Signal Level
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Signal to Noise ratio
TUNER SECTION
FM Section
• Tuning Range
• Signal to Noise ratio (Mono)
AM Section
• Tuning Range
U.S.A. and Canada models
• Signal to Noise ratio
• Signal to Noise ratio
<ul> <li>Signal to Noise ratio</li></ul>
• Signal to Noise ratio

### **AUDIO FORMAT**

- Dolby Digital/MPEG decode (not decode DTS)
- PCM DATA: 16 bit
- LPCM DATA: 20/24 bit

Fs: 44.1, 48 kHz support/88.2, 96 kHz downmix support

- MP3: 32 kbps to 320 kbps, 16 kHz to 48 kHz sampling rate
- WMA: Up to 192 kbps (not support 32 kbps), 32 kHz, 44.1 kHz, 48 kHz sampling rate
- Support mono and stereo WMA/MP3 and VBR files

### **GENERAL**

Power Supply	
U.S.A. and Canada models	AC 120 V, 60 Hz
Australia model	AC 240 V, 50 Hz
U.K. and Europe models	AC 230 V, 50 Hz
Korea model	AC 220 V, 60 Hz
Asia model	AC 220-240 V, 50/60 Hz
General model	AC 110-120 V, 50/60 Hz
Power consumption	30 W
Standby Power consumption	
U.S.A. and Canada models	0.9 W
Australia model	1.1 W
U.K. and Europe models	1.0 W
Korea model	1.0 W
Asia model	1.1 W
General model	0.9 W
Laser Pickup	
TypeSem	niconductor laser GaAIAs
Wave length	
Output Power 1.45 mW (DV	D), 1.13 mW (VCD/CD)
Dimensions (W x H x D)	
(	(8.46 x 4.44 x 11.65 inch)
Weight	2.65 kg
	(5.84 lbs)
Operating Temperature Range	+5 to +35°C (41 to 95°F)
Operating Humidity Range 5 to	

Specifications are subject to change without notice.

### LIST OF REMOTE CONTROL CODES LISTE DES CODES DE COMMANDE

TV	
YAMAHA	299/292/242/285/
	287/253
Admiral	292/293/216
Aiwa	294/276/283/284
Akai	295/296
Alba	296
AOC	297
Audiovox Belcor	285 297
Bell & Howell	292
Bestar	298
Blaupunkt	229/222
Blue sky	298
Brandt	223
Brocsonic	297
Bush	296
By Design	201/202
Clatronic	298
Craig	224
Croslex	225/298
Curtis Mathis	297/226
Daewoo	297/298/224/227/
_	228
Dayton	239
Dwin	293/281
Emerson	297/224/239/232 223/265/266
Ferguson First line	298
Fisher	295/233
Fraba	298
Fujitsu	289
Funai	277/278
GE	293/297/234/235/
	236
Goodmans	296/298/223
Grundig	229/238/249
Hitachi	297/239/242/243/
	285
ICE	296
Irradio	296
Itt/Nokia	244/245
JC Penny JVC (Victor)	293/297/234/237 296/246/247
Kendo	298
KTV	297/239/285
LG/Goldstar	297/298/239/237
Loewe	298/248
LXI	293/297/225/226/
	233/298
Magnavox	297/225/239/298
Marantz	286/210
Matsui	295
Medion	203/204/298
Memorex	297/216
Mitsubishi	299/297/259/287
Nad	226/255
NEC	297/252/282
Nokia Oceanic	244/245 245
Nokia Oceanic Nordmende	245 265/266
Onwa	296
Jiiwa	270

Panasonic	234/235/236/253/
	288/211
Philco	297/225/239/298
Philips	225/205/298
Pioneer	226/235/254/255/
	268
Portland	297/256
Proscan	293/221/231/241/
	251
Proton	297/250/260/270
Quasar	234/235
Radio Shack	299/293/297
RCA	293/297/234/256/
	257/258/221
SABA	223/269/265/266
Sampo	281/297/280
Samsung	297/239/248/262/
	275
Sanyo	295/233/279/272/
	273/274/212
Schneider	296
Scott	297
Sharp	292/239/232/213
Siemens	229
Signature	216/292
Sony	263/214
Sylvania	297/225/298
Symphonic	217/218/219
Telefunken	269/264/265/266
Thomson	223/266
Toshiba	292/226/267/215
Videch	297/242
Wards	297/239/232/216

Cable TV		
ABC	739/752/753/755/	
	758/759/762	
General Instru	iment	
	722	
Hamlin	723/724/725/726/	
	727	
Hitachi	722	
Jerrold	722/728/729/732/	
	733/734/735/736/	
	737	
Magnavox	738	
Motorola	748	
Oak	739/742/743	
Panasonic	744/745/746/747/	
	783/784	
Philips	763/764/765/766/	
	767/768	
Pioneer	748/785/747	
Radio Shack	749	
Scientific Atlanta		
	752/753/754	
Sony	756/757	
Tocom	755	
Universal	769/772/773/774/	
	775	
Viewstar	764/766/776/777/	
	778/779/782	

### Digital Broadcast Satellite tuner

Echostar	822	
GE	837/838/839	
General Instrument		
	823	
Hitachi	824	
Hughes	843/844/845/846	
JVC (Victor)	822	
Magnavox	825	
Panasonic	826/829	
Philips	825/843/844/845/	
	846/847/848/849	
Primestar	827	
Proscan	837/838/839/842	
Radio Shack	828	
RCA	837/838/839/842	
Samsung	852	
Sony	832/835	
Toshiba	833/836	
Uniden	825	
Zenith	834	

### **CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### **AVERTISSEMENT**

L'utilisation de commandes et l'emploi de réglages ou de méthodes autres que ceux décrits ci-dessous, peuvent entraîner une exposition à un rayonnement dangereux.

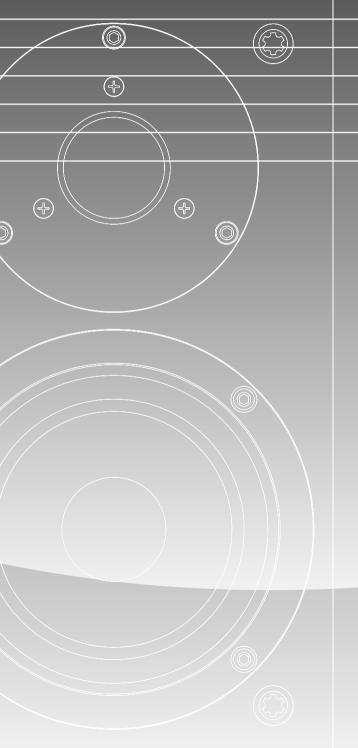
CLASS 1 LASER PRODUCT LASERE KLASSE 1 PRODUKT CAUTION-VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. **⊕**  $\Gamma$ **CLASS 1 LASER PRODUCT** LASER KLASSE 1 PRODUKT LUOKAN 1 LASERLAITE KLASS 1 LASER APPARAT PRODUIT LASER DE CLASSE 1



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# NX-E700



Speaker System
Systeme D'enceintes
Lautsprecheranlage
Sistema de altavoces
扬声器系统

OWNER'S MANUAL MODE D'EMPLOI BEDIENUNGSANLEITUNG MANUAL DE INSTRUCCIONES 使用说明书

### **PRECAUTIONS**

### Read this before using the speakers.

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install the speakers in a cool, dry, clean place away from windows, heat sources, sources of excessive vibration, dust, moisture and cold. Avoid sources of humming (transformers, motors). To prevent fire or electrical shock, do not expose the speakers to rain or water.
- To prevent the enclosure from warping or discoloring, do not place the speakers where they will be exposed to direct sunlight or excessive humidity.
- Do not place the following objects on the speakers: Glass, chine, etc.
  - If glass etc. falls by vibrations and breaks, it may cause personal injury.
  - A burning candle etc.
    - If the candle falls by vibrations, it may cause fire and personal injury.
  - A vessel with water in it
    - If the vessel falls by vibrations and water spills, it may cause damage to the speakers, and/or you may get an electrical shock
- Do not place the speakers where foreign objects such as water drips might fall. It might cause a fire, damage to the speakers, and/or personal injury.
- Do not place the speakers where they are liable to be knocked over or struck by falling objects. Stable placement will also ensure better sound performance.
- Placing the speakers on the same shelf or rack as the turntable can result in feedback.
- Never put a hand or a foreign object into the port located on the rear of the speaker as this might cause personal injury and/or damage to the speaker.
- When moving the speaker, do not hold the port as it might cause personal injury and/or damage to the speaker.
- Any time you note distortion, reduce the volume control on your receiver to a lower setting. Never allow your receiver to be driven into "clipping". Otherwise the speakers may be damaged.
- When using a receiver with a rated output power higher than the nominal input power of the speakers, care should be taken never to exceed the speakers' maximum input.
- Do not attempt to clean the speakers with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- Do not attempt to modify or fix the speakers. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reasons.
- Secure placement or installation is the owner's responsibility.
  - YAMAHA shall not be liable for any accident caused by improper placement or installation of speakers.

### **ACCESSORIES**

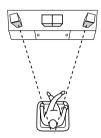
Check that the following items are included.

#### Speaker cable (4m) x 2



### PLACING THE SPEAKERS

- Place the speakers on a sturdy, vibration-free surface. You may not be able to obtain good bass quality when the speakers are placed directly on the floor. Put a block, etc. under the speakers.
- Better stereo images will be obtained when the speakers are slightly angled in towards the listening position.



### Note

These speakers feature a magnetically shielded design, but there is still a chance that placing them too close to a TV set might impair picture color. Should this happen, move the speakers away from the TV set.

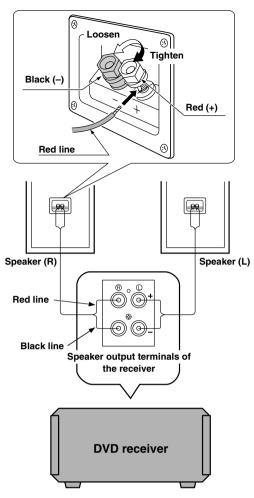
# CONNECTION TO YOUR DVD RECEIVER

### BEFORE MAKING CONNECTIONS, MAKE SURE THAT THE DVD RECEIVER IS SWITCHED OFF.

When this unit is connected to the DVD receiver, refer also to the owner's manual supplied with the receiver.

#### **■ CONNECTIONS**

- Connect the screw-type input terminals at the rear of the speakers to the speaker output terminals of the receiver with the provided speaker cables.
- One side of the speaker cable is red and the other side is black.
   Connect the (+) terminals on the receiver and speakers using the red side. Connect the (-) terminals on both components using the black side of the cable.
- Connect one speaker to the left (marked L) terminals of the receiver, and the other to the right (marked R) terminals. Make sure not to reverse polarity (+, -).
  - If a speaker is connected with reverse polarity, the sound will be unnatural and lack bass.



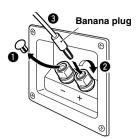
### How to connect:

- 1 Loosen the knob.
- ② Remove the insulation coating at the extremity of each speaker cable by twisting the coating off.
- 3 Insert the bare wire.
- Tighten the knob and secure the cable. Test the firmness of the connection by pulling lightly on the cable at the terminal.

### Note

Do not let the bare speaker wires touch each other as this could damage the speaker or the receiver, or both of them.

### When using a banana plug

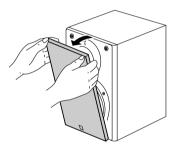


- 1 Remove the cover by pulling it toward you.
- 2 Tighten the terminal knob.
- 3 Insert the banana plug into the terminal.

### REMOVING THE FRONT COVER

The front cover is fastened to the enclosure at four point and can be removed if desired. To remove the cover, hold on to both sides and slowly pull straight away from the speaker.

To reattach, line up the four pegs on the inner surface of the cover with the four corresponding holes on the speaker and push gently.



### Note

When the cover is removed, be sure not to touch the speaker units with your hands or to exert excessive force with tools.

### **SPECIFICATIONS**

Type	2-way bass-reflex speaker system
	Magnetic shielding type
Driver	
	2.5 cm (1") dome tweeter
Impedance	6 Ω
Frequency Response	60 Hz to 28 kHz (-10 dB)
	80 kHz (-30 dB)
Nominal Input Power	40 W
Maximum Input Power	110 W
Sensitivity	85 dB/2.83 V/m
Crossover Frequency	3 kHz
Dimensions (W x H x D)	165 x 255 x 183 mm
	(6-1/2" x 10" x 7-3/16")
Weight	3.4 kg (7 lbs. 8 oz.)
Accessories	Speaker cable (4 m) x 2

- \* Specifications are subject to change without notice due to product improvements.
- \* Care should be taken not to exceed the input power values noted above.





This product mainly uses lead-free solder. Cet appareil utilise principalement de la soudure sans plomb. Dieses Produkt verwendet hauptsächlich bleifreies Lot. Este producto utiliza principalmente soldadura sin plomo.

本产品主要使用无铅焊料。

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YAMAHA ELECTRONIK EUROPA G.m.b.H. SIEMENSSTR. 22-34, 25462 RELLINGEN BEI HAMBURG, GERMANY
YAMAHA ELECTRONICUE FRANCE S.A. RUE AMBROISE CROIZAT BP70 CROISSY-BEAUBOURG 77312 MARNE-LA-VALLEE CEDEXO2, FRANCE
YAMAHA ELECTRONICS (UK) LTD. YAMAHA HOUSE, 200 RICKMANSWORTH ROAD WATFORD, HERTS WID 18 7GQ, ENGLAND
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YAMAHA MUSIC AUSTRALIA PTY, LTD. 17-33 MARKET ST., SOUTH MELBOURNE, 3205 VIC., AUSTRALIA